PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

REC'D	29	MAR	2005	
WIPC)	1	PCT	_

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference				
PCT-0310-10	FOR FURTHER ACTION	ACTION SeeNotificationofTransmittalofInternationalPreliminary Examination Report (Form PCT/IPEA/416)		
TO COTT (TO CO	International filing date (day/mo	•	Priority date (day/months) 24 OCTOBER 2002 (2)	•
International Patent Classification (IPC) of IPC7 A01N 55/00				
Applicant BICBIO CO., LTD et al				· · · · · · · · · · · · · · · · · · ·
amended and are the basis for 70.16 and Section 607 of the	f 3 sheets, including to Article 36. sheets, including the ANNEXES, i.e., sheets or this report and/or sheets core Administrative Instructions un	ding this cover s of the descripti	heet. on, claims and/or drawings	which have been
These annexes consist of a total o	f sheets.			
IV Lack of unity of inverted to the lack of unity of unity of inverted to the lack of unity of u	f opinion with regard to novelt intion under Article 35(2) with regard tions supporting such statemer	i to novelty, inve t		
Date of submission of the demand 31 OCTOBER 2003 (of completion of the office of	of this report I 2005 (08.03.2005)	
Name and mailing address of the IPEA/I Korean Intellectual Property 920 Dunsan-dong, Seo-gu, I Republic of Korea Facsimile No. 82-42-472-7140	Office Daejeon 302-701,	horized officer CHO, Myung		(FOIL)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International aplication No.

PCT/KR2003/002246

I.	Basis	of the report	
1.	With	regard to the elements of the international application:*	
	\boxtimes	the international application as originally filed	
		the description:	
		pages	, as originally filed
1		pages, filed with the letter of	, filed with the demand
		the claims:	
		pages	, as originally filed
		pages, as amended (together with any	statment) under Article 19
		pages, filed with the letter of	, filed with the demand
	Ш	the drawings: pages	or originally filed
		pages	, as originally filed , filed with the demand
		pages filed with the letter of	
1		the sequence listing part of the description:	
		pages, filed with the letter of	, as originally filed
١	٠.,	pages filed with the letter of	, filed with the demand
	•		
2.	the i	n regard to the language, all the elements marked above were available or furnished to this Authoritemational application was filed, unless otherwise indicated under this item. se elements were available or furnished to this Authority in the following language	ority in the language in which which is
		the language of a translation furnished for the purposes of international search (under Rule 23.	1(b))
	一	the language of publication of the international application (under Rule 48.3(b)).	-(0)).
		the language of the translation furnished for the purposes of international preliminary examinor 55.3).	nation(under Rules 55.2 and/
3.	Wi	th regard to any nucleotide and/or amino acid sequence disclosed in the international application in the international application was carried out on the basis of the sequence listing:	cation, the international
		contained inthe international application in written form.	•
		filed together with the international application in computer readable form.	
		furnished subsequently to this Authority in written form.	
		furnished subsequently to this Authority in computer readable form	
	$\overline{}$	The statement that the subsequently furnished written sequence listing does not go bey	ond the disc losure in the
1		international applicationas as filed has been furinshed.	
	كا	The statement that the information recorded in computer readable form is identical to the water been furnished.	ritten sequence listing has
4.		The amendments have resulted in the cancellation of:	
		the description, pages	•
		the claims, Nos.	
		the drawings, sheets	
5.			
		This report has been established as if (some of) the amendments had not been made, since go beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).**	they have been considered to
*	in thi	acement sheets which have been furnished to the receiving Office in response to an invitation und is opinion as "originally filed." and are not annexed to this report since they do not contain 70.17).	der Article 14 are referred to amendments (Rules 70.16
**	Any i	replacement sheet containing such amendments must be referred to under item I and annexed to	this report.

INTERNATIONAL PRELIMINARY EXAMINATION

International aplication No. PCT/KR2003/002246

V.	V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or indu	strial applicability;
	citations and explanations supporting such statement	•

1. Statement			
Novelty (N)	Claims	2, 3	YES
	Claims	1, 4-9	No
Inventive step (IS)	Claims		YES
	Claims	1-9	NO
Industrial applicability (IA)	Claims	1-9	
	Claims		

- 2. Citations and explanations (Rule 70.7)
 - 1. Reference is made to the following document:

D1: KR 2001-89155 (29 Sep. 2001)

2. Novelty and Inventive step

The present invention relates to the agents for regulating gametophytic self-incompatibility which inhibit a style-specific S RNase promoting gametophytic self-incompatibility. The agents provide the chemical formula MLn.yX.wH₂O as defined in claim 1, where M represents cation of either copper or zinc, L is a chelate or complex forming moiety and X represents an anionic moiety.

Claims 1 and 4-9 lack novelty under PCT Article 33(2) as being anticipated by D1. D1 discloses the composition regulating gametophytic self-incompatibility by inhibiting style-specific RNase activity. It further teaches that a metal sulfate compound is a useful composition for such purposes, wherein preferred metal ions can be selected from the cations of copper, magnesium, zinc or manganese. Thus, the composition wherein n=0, w=0 and X=SO₄ in claims 1 and 4-9 are disclosed in D1.

Claims 1-9 lack an inventive step under PCT Article 33(3) as being obvious over D1. Although the claims 1-9 of the present application have an additional component L(chelate or complex forming moeity) compared with D1, L is believed to contribute to binding metal to anionic ion rather than promoting the RNase inhibiton activity.

3. Industrial Applicability

The subject matter in claims 1-9 meets the requirement for industrial applicability set out in PCT Article 33(4).